

ELECTRONIC INFORMATION DISCLOSURE STATEMENT
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Title of Invention	Simulating diagonal wiring directions using manhattan directional wires																																																																																																
<p>Application Number: 10/043853 *10/043853*</p> <p>Confirmation Number: 9148</p> <p>First Named Applicant: Steven Teig</p> <p>Attorney Docket Number: SPLX.P0007</p> <p>Art Unit: 2826</p> <p>Examiner: Alexander O. Williams</p> <p>Search string: (5640327 or 5689433 or 5801385 or 5811863 or 5880969 or 5889329 or 6111756 or 6260183 or 6263475 or 6301686 or 6324674 or 6412097 or 6645842 or 20010009031).pn.</p> <p>US Patent Documents</p> <p>Note: Applicant is not required to submit a paper copy of cited US Patent Documents</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>Init</th> <th>Cite.No.</th> <th>Patent No.</th> <th>Date</th> <th>Patentee</th> <th>Kind</th> <th>Class</th> <th>Subclass</th> </tr> </thead> <tbody> <tr><td>02</td><td>1</td><td>5640327</td><td>1997-06-17</td><td>Ting</td><td></td><td></td><td></td></tr> <tr><td></td><td>2</td><td>5689433</td><td>1997-11-18</td><td>Edwards</td><td></td><td></td><td></td></tr> <tr><td></td><td>3</td><td>5801385</td><td>1998-09-01</td><td>Endo et al.</td><td></td><td></td><td></td></tr> <tr><td></td><td>4</td><td>5811863</td><td>1998-09-22</td><td>Rostoker et al.</td><td></td><td></td><td></td></tr> <tr><td></td><td>5</td><td>5880969</td><td>1999-03-09</td><td>Hama et al.</td><td></td><td></td><td></td></tr> <tr><td></td><td>6</td><td>5889329</td><td>1999-03-30</td><td>Rostoker et al.</td><td></td><td></td><td></td></tr> <tr><td></td><td>7</td><td>6111756</td><td>2000-08-29</td><td>Moresco</td><td></td><td></td><td></td></tr> <tr><td></td><td>8</td><td>6260183</td><td>2001-07-10</td><td>Raspopovic et al.</td><td>B1</td><td></td><td></td></tr> <tr><td></td><td>9</td><td>6263475</td><td>2001-07-17</td><td>Toyonaga et al.</td><td>B1</td><td></td><td></td></tr> <tr><td></td><td>10</td><td>6301686</td><td>2001-10-09</td><td>Kikuchi et al.</td><td>B1</td><td></td><td></td></tr> <tr><td>02</td><td>11</td><td>6324674</td><td>2001-11-27</td><td>Andreev et al.</td><td>B2</td><td></td><td></td></tr> </tbody> </table>		Init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass	02	1	5640327	1997-06-17	Ting					2	5689433	1997-11-18	Edwards					3	5801385	1998-09-01	Endo et al.					4	5811863	1998-09-22	Rostoker et al.					5	5880969	1999-03-09	Hama et al.					6	5889329	1999-03-30	Rostoker et al.					7	6111756	2000-08-29	Moresco					8	6260183	2001-07-10	Raspopovic et al.	B1				9	6263475	2001-07-17	Toyonaga et al.	B1				10	6301686	2001-10-09	Kikuchi et al.	B1			02	11	6324674	2001-11-27	Andreev et al.	B2		
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<i>AK</i>	12	6412097	2002-06-25	Kikuchi et al.	B1
<i>AK</i>	13	6645842	2003-11-11	Igarashi et al.	B2

US Published Applications

Note: Applicant is not required to submit a paper copy of cited US Published Applications

Init	Cite.No.	Pub. No.	Date	Applicant	Kind	Class	Subclass
<i>AK</i>	1	20010009031	2001-07-19	Nitta et al.	A1		

Signature

Examiner Name	Date
<i>alejo benitez</i>	<i>10/31/02</i>



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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	10/043,853
				Filing Date	1/11/2002
				First Named Inventor	Steven Teig
				Group Art Unit	2826
				Examiner Name	Alexander O. Williams
Sheet	1	of	1	Attorney Docket Number	SPLX.P0007

FOREIGN PATENT DOCUMENTS								
Examiner Initials	Cite No. ¹	Foreign Patent Document			Date of Publication MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code (if known) ⁵				
<i>W</i>	1.	JP	04-000677		01-06-1992	Fujiwara et al.	with English translation of Abstract;	
<i>W</i>	2.	JP	2000-082743		03-21-2000	Igarashi et al.	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ⁶
<i>W</i>	3.	Chen et al., Optimal Algorithms for Bubble Sort Based Non-Manhattan Channel Routing, May 1994, Computer-Aided Design of Integrated Circuits and Systems, IEEE Transactions Volume: 13 Issues, pp. 603-609.		
	4.	Cong J. et al., DUNE - A Multilayer Gridless Routing System, May 2001, IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, vol 20, iss. 5, pp. 633-647.		
	5.	Dion J. et al., Contour: A Tile-based Gridless Router, March 1995, Digital Western Research Laboratory, research Report 95/3, pp.1-22		
	6.	Merriam-Webster's Collegiate Dictionary, 10 th edition, Merriam-Webster Incorporated, p.606		
	7.	Morton, P. B. et al., An Efficient Sequential Quadratic Programming Formulation of Optimal Wire Spacing for Cross-Talk Noise Avoidance Routing, UCSC-CRL-99-05, March 10, 1999.		
	8.	NN71091316, Use of Relatively Diagonal And Rectangular Wiring Planes n Multilayer Packages, September 1971, IBM Technical Disclosure Bulletin, Vol. No. 14, Issue No. 4, pp. 1316-1317.		
	9.	Royle, J. et al., Geometric Compaction in One Dimension for Channel Routing, 24 th ACM/IEEE Design Automation Conference, 1987, pp 140-145.		
<i>W</i>	10.	Tseng H. et al., A Gridless Multilayer Router for Standard Cell Circuits Using CTM Cells, Oct. 1999, IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, vol 18, iss. 10, pp. 1462-1479.		

Examiner Signature	<i>[Signature]</i>	Date Considered	10/31/04
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